

## **Fremont Building Permits Monolithic Slab on Ground**

Monolithic Slab – slab on ground cast monolithically with footing may be used as thickened slab foundation for a detached one-story (only) accessory building (U-1 Occupancy Types ONLY)

- Ground shall be graded, compacted and level
- Grading, drainage, and swales as required to insure no containment of water
  - minimum of 6 inches of fall within 10 feet
- Slab to be placed on undisturbed soil or approved structural fill
  - Not to be used on organic soils, soft soils, muck, or otherwise expansive soil types. All sod and foreign matter under slab is to be removed
- Slab is not to be used to support isolated columns – interior monolith required
- Slab is not to be used as a foundation system for structural additions.
- Maximum slab area for one-story building - ~1,000 square foot.
- Trench entire perimeter
  - 12 inch minimum width at base
  - 12 inch minimum depth below finished grade
  - 6” minimum above finished grade (total depth of pour min = 18 inches)
  - continuous # 4 rebar at top and bottom of thickened edge of slab – rebar positioned a minimum of 3” from edge (from soil)
  - lapping of rebar is to be minimum of 15” and all bends are to be cold bends
- 6 x 6 ‘ – 10 x 10 welded wire mesh continuous through the slab/floor – overlap mesh at least one square. Keep mesh supported out of contact with soil
- 4 inch minimum crushed stone or washed gravel under slab/floor
- 4 inch minimum pour throughout slab/floor
- 3000 psi compression strength concrete (min)
- ½ inch diameter steel anchor bolts placed 6 foot on center (max)
  - 7 inch minimum penetration into concrete
  - 12 inch maximum from corners
  - 12 inch maximum from each sill plate end
  - minimum of 2 bolts per section plate
- Sill plate to be treated lumber (2 x 6 min)

### Inspection Point

- Prior to Pour

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This information was compiled for specific purposes as an advisory check sheet and its use and interpretation otherwise is not intended - Thomas Roy – Building Inspector